

VEICHI

SI30 Series Solar Pump Inverter



Multiple Pump Protections



Smart IOT Platform



Voltage boost function



IP65 High Protection Level



Technical Specification

MODEL		D1	D3	D5
		PV Input		
Input voltage range		60~400V	150~450V	300~850V
Recommended Voc voltage		175~380V	360~430V	620~750V
Maximum MPPT efficiency		up to 99.8%	up to 99.8%	up to 99.8%
		AC Input		
Input voltage range		1PH 110V	1PH 220~240V	3PH 380~480V
Input voltage frequency		50/60Hz	50/60Hz	50/60Hz
		Output		
Output voltage range		110~230V	150~230V	230~460V
Output frequency range		0~599Hz	0~599Hz	0~599Hz
Output power range		0.75~1.5kW	0.75~2.2kW	0.75~11kW
Power		Rated output current		
0.75kW		7A	4A	2.5A
1.5kW		10A	7A	3.7A
2.2kW		-	10A	5A
4kW		-	-	10A
5.5kW		-	-	13A
7.5kW		-	-	17A
11kW		-	-	25A
Control Performance				
Motor type		Asynchronous motor, permanent magnet synchronous motor, synchronous reluctance motor		
Control mode		V/F control, open-loop vector control, closed-loop vector control, voltage-frequency separated control		
Overload capacity		150% of rated load for 60s, 180% of overload capacity for 10s, 200% of overload capacity for 0.5s		
System				
Installation		Hitch mounting		
Protection class		IP65		
Working temperature		-10~60°C		
Cooling method		Forced air cooling		
Humidity		20%~95%RH (condensation free)		
Installation environment		Altitude lower than 1000m. Derate 1% for each 100m rise when above 1000m.No condensation, icing, rain, snow, hail, etc., solar radiation below 700W/m2, air pressure 70kPa ~ 106kPa		
Protection				
Common potection	Undervoltage / overvoltage	√	√	√
	Input/output phase loss	√	√	√
	Overload	√	√	√
	Overcurrent	√	√	√
	Drive overheat	√	√	√
	Short circuit between phases and to ground	√	√	√
Specialized protection	Low frequency	√	√	√
	Pump overcurrent	√	√	√
	Dryout	√	√	√
	Min. power	√	√	√
	Overflow	√	√	√
	Sleep protection	√	√	√

